Lab 4 - Cloud Computing

Okiki Ojo (100790236)

GitHub Link: https://github.com/okikio-school/cloud-computing-labs/tree/main/Lab%204
Video Links:

- **Check the GitHub there was an issue during recording**
- **voting-machine.mp4**

Design

The dataset was updated to include more information for the final step to solve the occluded pedestrian problem. Seven microservices are designed to solve the problem. The description of the microservices is given in the milestone 4 section.
Note that the microservices logic has already been implemented. Your task is to update them only to establish the communication between the microservices using a shared bus and to create a producer and consumer.

Discussion:

Compare the advantages and disadvantages of using Dataflow vs microservices in preprocessing the smart reading.

Dataflow is configured for large and complex scalable distributed tasks, microservices allow for more control but require the user to take on more responsibility. In addition, dataflow being design for such large types of tasks means from a cost perspective data flow is generally cheaper for those types of large tasks.

Deliverables:

- A report that includes the discussion part. It should also describe the design part and the steps to deploy and execute it.
- An audible video of about 4 minutes showing the deployment and execution of the voting system.
- An audible video of about 5 minutes showing the deployment and execution of the design part showing samples from the results.

- A GitHub link includes the scripts of the design part.